

বাংলাদেশ কারিগরি শিক্ষা বোর্ড, ঢাকা

ডিপ্লোমা-ইন-ইঞ্জিনিয়ারিং শিক্ষাক্রম

২য়, ৪র্থ, ৬ষ্ঠ ও ৮ম পর্ব সমাপনী পরীক্ষা-২০০৯

টেকনোলজি : ইলেকট্রনিক্স

বিষয় : মাইক্রোকন্ট্রোলার অ্যান্ড পি.এল.সি

বিষয় কোড : ২৮৬৫

সময় : ৩ ঘণ্টা

পূর্ণমান : ১৫০

ক ও খ-বিভাগের সকল এবং গ-বিভাগের যে কোন ৪ (চার)টি প্রশ্নের উত্তর দাও।

ক-বিভাগ (মান :  $10 \times 1 = 10$ )

- ১। মাইক্রোকন্ট্রোলার বলতে, কী বুঝায়?
- ২। ডাটা পয়েন্টারের কাজ কী?
- ৩। অ্যাসেম্বলার ডিরেকটিভস্ বলতে কী বুঝায়?
- ৪। ইভেন্ট কাউন্টার এর কাজ কী?
- ৫। ইন্টারপার্ট প্রাইওরিটি বলতে কী বুঝায়?
- ৬। মাইক্রোকন্ট্রোলারের সাথে এল.সিডি এর ইন্টারফেসিং করা হয় কেন?
- ৭। সার্কিট প্রটেকশন ডিভাইস এর দু'টি ব্যবহারিক ক্ষেত্র উল্লেখ কর।
- ৮। পি.এল.সি প্রোগ্রামিং ল্যাংগুয়েজ বলতে কী বুঝায়?
- ৯। পি.এল.সি এর নাচার সিস্টেম ব্যবহারের সুবিধা কী?
- ১০। পি.এল.সি সিস্টেমে নেটওয়ার্ক মডিউল কী?

খ-বিভাগ (মান :  $10 \times 2 = 20$ )

- ১১। ৮০৫১ মাইক্রোকন্ট্রোলার এর গুরুত্বপূর্ণ বৈশিষ্ট্যগুলো লেখ।
- ১২। ৮০৫১ মাইক্রোকন্ট্রোলার এর কাউন্টার এর কাজ বর্ণনা কর।
- ১৩। ৮০৫১ মাইক্রোকন্ট্রোলার এর ইন্টারপার্টগুলোর কার্যাবলী সংক্ষেপে লেখ।
- ১৪। পি.এল.সি প্রোগ্রামিং ল্যাংগুয়েজে ব্যবহৃত প্রতীকগুলো অংকন করে নাম লেখ।
- ১৫। হার্ডওয়ার্ড এবং ভন নিউম্যান প্রবর্তিত মাইক্রোকন্ট্রোলার এর আর্কিটেকচার অংকন কর।
- ১৬। ৮০৫১ মাইক্রোকন্ট্রোলার এর স্পেশাল ফাংশন রেজিস্টার (SFR) এর কাজ সংক্ষেপে লেখ।
- ১৭। ৮০৫১ মাইক্রোকন্ট্রোলার এর ইনস্ট্রাকশন কয় প্রকার ও কী কী? এদের নাম লেখ।
- ১৮। ৮০৫১ মাইক্রোকন্ট্রোলার এর টাইমারের সংক্ষেপে বর্ণনা দাও।
- ১৯। পি.এল.সি কন্ট্রোল সিস্টেমে ব্যবহৃত বিভিন্ন মোডগুলোর নাম লেখ।
- ২০। কনভার্সন এবং সিকুয়েন্সিয়াল লজিক এর মাঝে পার্থক্য লেখ।

গ-বিভাগ (মান :  $8 \times 5 = 40$ )

- ২১। ৮০৫১ মাইক্রোকন্ট্রোলার এর পিন ডায়গ্রাম অংকন করে পিনের কাজ বর্ণনা কর।
- ২২। ৮০৫১ মাইক্রোকন্ট্রোলার এর অ্যাসেম্বলিং মোড কয় প্রকার ও কী কী, বর্ণনা কর।
- ২৩। ৮০৫১ মাইক্রোকন্ট্রোলার এর সাথে এনালগ ডি-ডিজিটাল কনভার্টার (ADC) এর ইন্টারফেসিং চিত্রসহ বর্ণনা কর।
- ২৪। পি.এল.সি এর আর্কিটেকচার অংকন করে সংক্ষেপে বর্ণনা দাও।
- ২৫। পি.এল.সি এর মেমোরি এর অর্গানাইজেশনের চিত্র অংকন করে বর্ণনা কর।

# Microcontroller And Plc May June Question Papers

**Clemens Wendtner**



## Microcontroller And Plc May June Question Papers:

Technologies for the Information Society Jean-Yves Roger, Brian Stanford-Smith, Paul T. Kidd, 1998 GATEWAYS TO DEMOCRACY continues with its framework of gateways to help readers conceptualize participation and civic engagement even democracy itself with reference to how individuals access the political system This approach helps readers better see the relevance of government in their lives GATEWAYS uniquely incorporates policy into a section at the end of each chapter helping readers better understand the connection between public opinion policy making and how public policy applies to their lives The second edition complete with 2012 election updates emphasizes critical thinking by clearly outlining learning outcomes and enhancing learning with self assessment Checkpoints and a clear chapter study plan Chapters in this ESSENTIALS version are condensed to accommodate a shorter format but preserve the integrity of the text s hallmarks

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Conference on Non Integer Order Calculus and Its Applications 2016 brings together rigorously reviewed contributions from leading international experts The included papers cover novel various important aspects of mathematical foundations of fractional calculus modeling and control of fractional systems as well as controllability detectability observability and stability problems for this systems      **Advances in Non-Integer Order Calculus and Its Applications** Agnieszka B. Malinowska,Dorota Mozyrska,Łukasz Sajewski,2019-04-17 This book provides an overview of some recent findings in the theory and applications of non integer order systems Discussing topics ranging from the mathematical foundations to technical applications of continuous time and discrete time fractional calculus it includes 22 original research papers and is subdivided into four parts Mathematical Foundations Approximation Modeling and Simulations Fractional Systems Analysis and Control Applications The papers were selected from those presented at the 10th International Conference of Non integer Order Calculus and its Applications which was held at the Bialystok University of Technology Poland September 20 21 2018 Thanks to the broad spectrum of topics covered the book is suitable for researchers from applied mathematics and engineering It is also a valuable resource for graduate students as well as for scholars looking for new mathematical tools

*iCEER2014-McMaster Digest* Mohamed Bakr,Ahmed Elsharabasy,2014-11-18 International Conference on Engineering Education and Research      *Industrial Automation* Joshi Vikalp,2019-09-20 Explores the components of automationKey features The book provides basic concepts of industrial automation It is beneficial for engineering students having interest in the field of automation The unique feature of this book is the inclusion of multiple choice questions to help prepare students for competitive exams and interviews It covers the roles of SCADA and PLC in automation Description Automation is a process to perform controlled activities with minimal human assistance A lot of research is being carried out in this field Students are also opting for research and studies in automation The objective of this book is to explain the role of industrial automation This book will help engineering students to understand the basic concepts of industrial automation The unique feature of this book is the inclusion of multiple choice questions to help prepare students for competitive exams and interviews Automation has grown into a vast field and this book will be helpful to understand it comprehensively What will you learn SCADA and its application in Industrial Automation Supervisory and Control Functions SCADA Communication Network Human Machine Interface SCADA in EMS Programmable Logic Controller Automation Software Field Instrumentation Device Utility Information System Who this book is forEngineering students having research interests in the field of automation Table of contents1 SCADA in Industrial Automation2 Supervisory and Control Functions3 SCADA Communication Network4 Human Machine Interface5 SCADA in EMS6 Programmable Logic Controller7 Applications of SCADA8 Automation Software9 Field Instrumentation Device10 Utility Information System About the authorMr Vikalp Joshi holds a B Tech Instrumentation degree from University Science Instrumentation Center H N B G U Srinagar Garhwal and M Tech Instrumentation and Control from Graphic Era University Dehradun Currently he is working as an automation engineer

and has published many research papers on national and international journals His area of interest covers Industrial Automation Industrial instrumentation and Process Control Instrumentation Dr Manoj Singh Adhikari received his B Tech degree in Electronics and Communication Engineering from Dev Bhoomi Institute of Technology Dehradun India in 2010 and M Tech degree in Digital Signal Processing Engineering from the G B Pant Institute of Engineering and Technology formerly known as G B Pant Engineering College Pauri Garhwal India in 2013 He received his Ph D in Jan 2019 from the same institution Currently he is working as an Assistant Professor in Lovely Professional University Phagwara Punjab His research interests are simulation and modeling of power semiconductor devices Dr Raju Patel is working as an Assistant Professor in Department of Electronics certificate of appreciation from University of Petroleum and Energy Studies for exemplary work She has published fifteen books in the area of Embedded Systems and Internet of Things with reputed publishers

**Microcontroller: Features and Applications** D. S. Yadav, 2004      **Springer Handbook of Automation** Shimon Y. Nof, 2023-06-16 This handbook incorporates new developments in automation It also presents a widespread and well structured conglomeration of new emerging application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics The handbook is not only an ideal resource for automation experts but also for people new to this expanding field      *Industrial Automation and Robotics* A. K. Gupta, S. K. Arora, 2011-02 This text is meant to fill a long felt need for a comprehensive book on Industrial Automation and Robotics The book retains all aspects of the course in a unified manner as far as possible at undergraduate level The book is specifically written to meet the requirements of syllabus of PTU and various other universities The book is written in a simple and easy language so that the students can grasp the subject by self study The purpose of this book is to present a basic introduction to the multidisciplinary field of Automation The book begins with a brief introduction of Automation Chapter 2 deals with laws and principles upon which Hydraulics and Pneumatics are based upon In Chapter 3 the components of basic Pneumatic and Hydraulic systems are discussed Chapter 4 which is on pumps and compressors deals with characteristics and properties of all the pumps and compressors used in industry Chapter 5 concentrates on Pneumatic and Hydraulic accessories like filters lubricators air dryers FRL s pipelines connectors etc Chapter 6 deals with Pneumatic and Hydraulic actuators which covers classification construction and working of cylinders and motors Chapter 7 deals with construction and working of various Pneumatics and Hydraulics valves In Chapter 8 basic Pneumatic and Hydraulic circuits are discussed Chapter 9 which is on Fluidics discusses the basic theories and advancements in this field and various fluidic components Chapter 10 is on Pneumatic logic circuit design which discusses various methods on circuit design Chapter 11 is on electric and electronic controls used in automation Components like sensors PLC s and microprocessors are included Chapter 12 deals with Transfer Devices and Feeders Chapter 13 17 are on Robotics These cover Robotic Sensors Robotic Grippers Robot Programming and Applications of Robots in industry      *2024-25 UPPCL/UPRVUNL JE Electrical Engineering Solved Papers*

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Control Strategies for Dynamic Systems Jr., John H. Lumkes,2001-12-13 Presenting a unified modeling approach to demonstrate the common components inherent in all physical systems Control Strategies for Dynamic Systems comprehensively covers the theory design and implementation of analog digital and advanced control systems for electronic aeronautical automotive and industrial applications Detailing advanced     *2025-26 Bihar STET Class XI-XII Computer Solved Papers & Question Bank* YCT Expert Team , 2025 26 Bihar STET Class XI XII Computer Solved Papers Question Bank 288 595 This book contains the previous year solved papers up to 2025     **InTech** ,2000-07

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### **Table of Contents Microcontroller And Plc May June Question Papers**

1. Understanding the eBook Microcontroller And Plc May June Question Papers
  - The Rise of Digital Reading Microcontroller And Plc May June Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Microcontroller And Plc May June Question Papers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Microcontroller And Plc May June Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Microcontroller And Plc May June Question Papers
  - Personalized Recommendations
  - Microcontroller And Plc May June Question Papers User Reviews and Ratings
  - Microcontroller And Plc May June Question Papers and Bestseller Lists

5. Accessing Microcontroller And Plc May June Question Papers Free and Paid eBooks
  - Microcontroller And Plc May June Question Papers Public Domain eBooks
  - Microcontroller And Plc May June Question Papers eBook Subscription Services
  - Microcontroller And Plc May June Question Papers Budget-Friendly Options
6. Navigating Microcontroller And Plc May June Question Papers eBook Formats
  - ePub, PDF, MOBI, and More
  - Microcontroller And Plc May June Question Papers Compatibility with Devices
  - Microcontroller And Plc May June Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microcontroller And Plc May June Question Papers
  - Highlighting and Note-Taking Microcontroller And Plc May June Question Papers
  - Interactive Elements Microcontroller And Plc May June Question Papers
8. Staying Engaged with Microcontroller And Plc May June Question Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Microcontroller And Plc May June Question Papers
9. Balancing eBooks and Physical Books Microcontroller And Plc May June Question Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Microcontroller And Plc May June Question Papers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Microcontroller And Plc May June Question Papers
  - Setting Reading Goals Microcontroller And Plc May June Question Papers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microcontroller And Plc May June Question Papers
  - Fact-Checking eBook Content of Microcontroller And Plc May June Question Papers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning



- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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